



Venetian MicroTop™ Characteristics and Applications

Description

Venetian MicroTop™ is a cement-based, polymer modified decorative concrete topping material. Venetian MicroTop™ is a thinly applied topping that closely resembles the look of natural concrete. Venetian MicroTop™ can be smooth troweled or broom finished and can be pigmented or stained for a wide array of decorative finishes.

Basic Uses

Venetian MicroTop™ is used to resurface concrete that is worn, pitted or spalled. Venetian MicroTop™ can be used for interior or exterior applications over existing structurally sound horizontal concrete surfaces including decks, patios, sidewalks, driveways, casinos, hotels, floors, or most other residential or commercial concrete surfaces. Venetian MicroTop™ may also be used on vertical concrete surfaces. Venetian MicroTop™ is compatible with Legacy Colourant™ for integral pigmentation with Fresco Stain™ or Tinté D'Acqua™ Stains for producing unique color effects. Apply any of the Image Designs™ Vinyl Stencils or Design Tape™ to the Venetian MicroTop™ to create unique designs.

Advantages

- Single component, just add water
- Freeze/thaw resistant
- Fast turn-around, accepts foot traffic in 2–3 hours
- Vehicular traffic in 6–8 hours
- Cures to a light gray concrete color or may be pigmented or stained

Properties

Working time: 30 minutes at 70°F (21°C)
Initial Set: 45 minutes at 70°F (21°C)
Final Set: 1 hour at 70°F (21°C)

Compressive strength:
1 day: 3000 psi (20.6 MPa)
28 days: 5000 psi (34.5 MPa)

Installation Instructions

Substrate Preparation

Proper and complete substrate surface preparation is critical to the success of the project. The substrate to receive the Venetian MicroTop™ must be sound, free of any and all contaminants that would interfere with the adhesion of the products, all spalls, delaminated areas and cracks must be properly repaired prior to application. The substrate must exhibit a slight profile (similar to that of a medium sand paper) and must be absorptive (water should not bead up when placed on the substrate surface). Joints within the substrate must be kept open and maintained through the applied Venetian MicroTop™. Cracks exhibiting movement must be properly repaired and additional joints

may be necessary to allow for the continued movement of the substrate within the area of the crack. Placement of Venetian MicroTop™ over moving cracks or joints can result in cracking and delaminating of the Venetian MicroTop™. Repair non-moving cracks, spalls and delaminated areas with the appropriate epoxy bond or cement-based repair mortar. For crack repairing with epoxies, ensure the epoxy is confined to the crack only, not overfilled and out onto the slab surface. The top surface of the epoxy within the crack should be broadcast with silica sand, while the epoxy is still wet, to aid in the adhesion of the Venetian MicroTop™. Once the Venetian MicroTop™ is installed, a joint will need to be sawed through the Venetian MicroTop™ and into the substrate a minimum of 1/3 the depth of the substrate to allow for continued movement. This joint should be as close to the area of the original crack as possible.

For small pits or depressions, the Venetian MicroTop™ can be mixed to a stiffer than normal consistency and applied to fill these areas prior to overlaying the rest of the area. Allow 30–45 minutes, minimum prior to overlaying the rest of the area.

When using cement-based repair mortars for repair of deeper or larger spalls and delaminated areas, all repair materials must be **fully cured prior** to installation of the Venetian MicroTop™. When using concrete or slow set mortars, the cure time is typically seven days.

Surface preparation methods can include, but are not limited to, mechanical sanding, steel shot blasting, sand blasting, water blasting, or sand injected pressure washing to clean and profile the substrate. Chemical degreasers properly used and flushed off the surface may also be required. Often a combination of methods is required to achieve satisfactory results.

Immediately prior to installing the Venetian MicroTop™, dampen the surface with water. Remove any standing water, ponding or puddles of water prior to installation. Substrate should be uniformly dampened. **Overly wet or overly dry areas can result in color variation and weakens the finished installation.**

Mixing

A 40-pound (18 kg) bag of Venetian MicroTop™ will require approximately 3 quarts (2.8L) of water. For best results, use a ½ inch (12.7 mm) drill with a Jiffier-type mixing paddle.

Add the measured water to a clean 5-gallon (18.9L) pail. If pigmenting with Legacy Colourant™, add one 10 oz. bottle of desired color to water and mix well. Then, with the mixer running, slowly add the Venetian MicroTop™ powder, mixing until a lump-free consistency is obtained.

Allow the mixed material to set for approximately 5 minutes, and remix.

Mix only the amount of material that can be placed within 30 minutes of mixing. Keep bagged material and mixed material out of direct sunlight for added work time. Use cold water when mixing for added working time. In cooler conditions, use warm water when mixing.

Installation

Venetian MicroTop™ can be applied by brush, broom, trowel or squeegees. Ideal application temperatures are between 50°F (10°C) and 90°F (32.2°C) for both the substrate and air. When applying in warm conditions, always try to work in the shade or during the cooler time of day.

Venetian MicroTop™ is designed to be applied in a thin layer, typically from 1/16 inch (1.58 mm) to ¼ inch (6.35 mm). Venetian MicroTop™ can be installed up to ½ inch (12.7 mm) thick in small areas; however, the material will dry slower in these thicker areas. It is recommended to patch depressions deeper than ¼ inch (6.35 mm) prior to installing the material.

Apply the mixed Venetian MicroTop™ to the prepared, surface saturated dry (SSD) substrate by pouring out a ribbon of material along an edge and then spreading the material with a broom, trowel or squeegee over the surface. On porous surfaces, a small amount of material can be broomed over the substrate followed immediately by pouring out additional material over the area, then spreading with a broom, trowel or squeegee. Finish the material with a broom or trowel to desired texture within 5 minutes of application. Stampers Helper™ may be used to aid in smooth troweling the surface. Do not use water as a finishing aid.

Stage work in small sections, utilizing existing control joints as edge breaks. If work must be stopped within the plane of a slab area, tape can be applied to make a temporary break point. Apply the tape in a straight line across the slab, and then apply the material up to the edge of the tape. Then pull up the tape and install another piece of tape over the edge of the installed material, after it has dried, and begin the new application at the tape edge. This will eliminate overlapping the material.

Curing, Staining and Sealing

Venetian MicroTop™ is self-curing under most conditions. Venetian MicroTop™ may be stained using Fresco Stain™ or Tinté D'Acqua Stain™ 12–24 hours after application. For added protection and ease of cleaning, AquaClear VOC™, Magnum Seal™, Signature Seal VOC™, Signature Satin 400™ or Premium Seal VOC 100™ sealers may be applied 12–24 hours after application.



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Coverage

180 ft² (16.7 m²) per bag when applied at 1/16 inch (1.58mm) thickness. Actual coverage will vary depending on depth of application and texture of substrate.

Packaging

40-pound (18.1 kg) bags

Clean Up

Clean all tools with water prior to material hardening. Hardened material will require abrasive cleaning measures.

Limitations

Inconsistent temperature, winds, substrate moisture content and working from sun to shade can cause color variations in the finished installation.

Minimum application temperature is 50°F (10°C) for both substrate and air. Do not apply if rain is expected within 8 hours or within 24 hours of freezing temperatures. For application in temperatures above 75°F (23.9°C) use cool mixing water and work in the shade if possible. Limit work to smaller areas. Not for use in submerged areas or in areas subject to hard wheeled traffic.

Applications over cracks or joints are subject to re-cracking followed by shear back away from the crack.

Storage and Shelf Life

Store in cool dry location. Keep from freezing. Shelf life of properly stored materials is 1 year from date of manufacture in unopened original packaging.

Precautions

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Keep away from excessive heat and open flame.
3. Avoid inhalation of vapors. Ensure adequate ventilation.
4. Avoid contact with skin. May cause skin irritation and cement burns. Protective clothing is recommended. Contact areas should be thoroughly washed with soap and water.
5. Avoid contact with eyes. Flush eyes with water if contact occurs.
6. Avoid ingestion of material. If ingestion occurs, contact a poison control center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

Warranty

Legacy™ Decorative Concrete Systems, Inc. warrants that these products will be free from defects, and will perform as specified in the Technical Data Sheet, provided that storage, use and application of product are in accordance with manufacturer's recommendations and application instructions. The exclusive remedy of the user or buyer and the limit of the liability of this company for product proven defective shall be the purchase price paid by the user or buyer for the quantity of the Legacy™ Decorative Concrete Systems, Inc. products involved. Legacy™ Decorative Concrete Systems, Inc. shall not be liable for indirect, incidental, consequential, or special damages, whether due to breach of warranty or tort (including without limitation Legacy™ Decorative Concrete Systems, Inc.).

Manufacturer

Legacy™ Decorative Concrete Systems, Inc.

4021 Color Plant Rd.
Springfield, IL 62702

P.O. Box 8406
Springfield, IL 62791-8406

Tel. 217-522-6737
Toll Free 866-684-9394
Fax. 866-684-9395

Legacy Distribution Centers

4021 Color Plant Rd.
Springfield, IL 62702

1251 West Durst Rd.
Rialto, CA 92376

670 Allen Rd.
Carlisle, PA 17013